

### **ABSTRACT OF THE DISCLOSURE**

A digital image processing method for real-time automatic abnormality notification of in vivo images and remote access of in vivo imaging system, comprising the steps of: acquiring multiple sets of images using multiple  
5 in vivo video camera systems; for each in vivo video camera system forming an in vivo video camera system examination bundle; transmitting the examination bundle to proximal in vitro computing device(s); processing the transmitted examination bundle; automatically identifying abnormalities in the transmitted examination bundle; setting off alarming signals locally provided that suspected  
10 abnormalities have been identified; receiving one or more unscheduled alarming messages from one or more endoscopic imaging systems randomly located; routing alarming messages to remote recipient(s); and executing one or more corresponding tasks in relation to the alarming messages.